Product specification

Model: AP-050RF Black

Name: RGB Colorful Touch Six Keys Controller

🔴 overview

This product is a new generation of intelligent colorful RGB controller developed by our company using the latest capacitive touch technology and 433 radio frequency wireless technology. Adopt color ring full touch panel method, humanized design, beautiful and generous, direct and convenient; With stable wireless and capacitive touch control, you can control color from a distance without direction by simply touching the corresponding button with your finger. The remote control can be used to control the RGB luminaire's color selection, mode change, brightness and speed adjustment. It has the characteristics of long distance, high touch sensitivity, strong driving ability and stable performance. The product can adapt to all kinds of constant voltage RGB lamps, such as RGB hard light bar, soft light bar, RGB panel light, RGB module, etc.

🔴 peculiarity

1. All touch mode, no mechanical wear, can overcome the life problem caused by physical buttons.

2. Adopt an intuitive pulley color selection method, which is intuitive and convenient.

3. The input voltage is self-adapting to DC12~24V, and has the function of input polarity protection.

4. Using advanced PWM (pulse width modulation) control technology, the change effect is delicate and flicker-free.

5. Adopt high-power original dimming control MOS tube. The driving load capacity is strong, up to

18A, and the performance is stable.

6.433 radio frequency wireless remote control control, not directional, remote control distance is not less than 20m.

7. The remote control has low power consumption and long standby time.

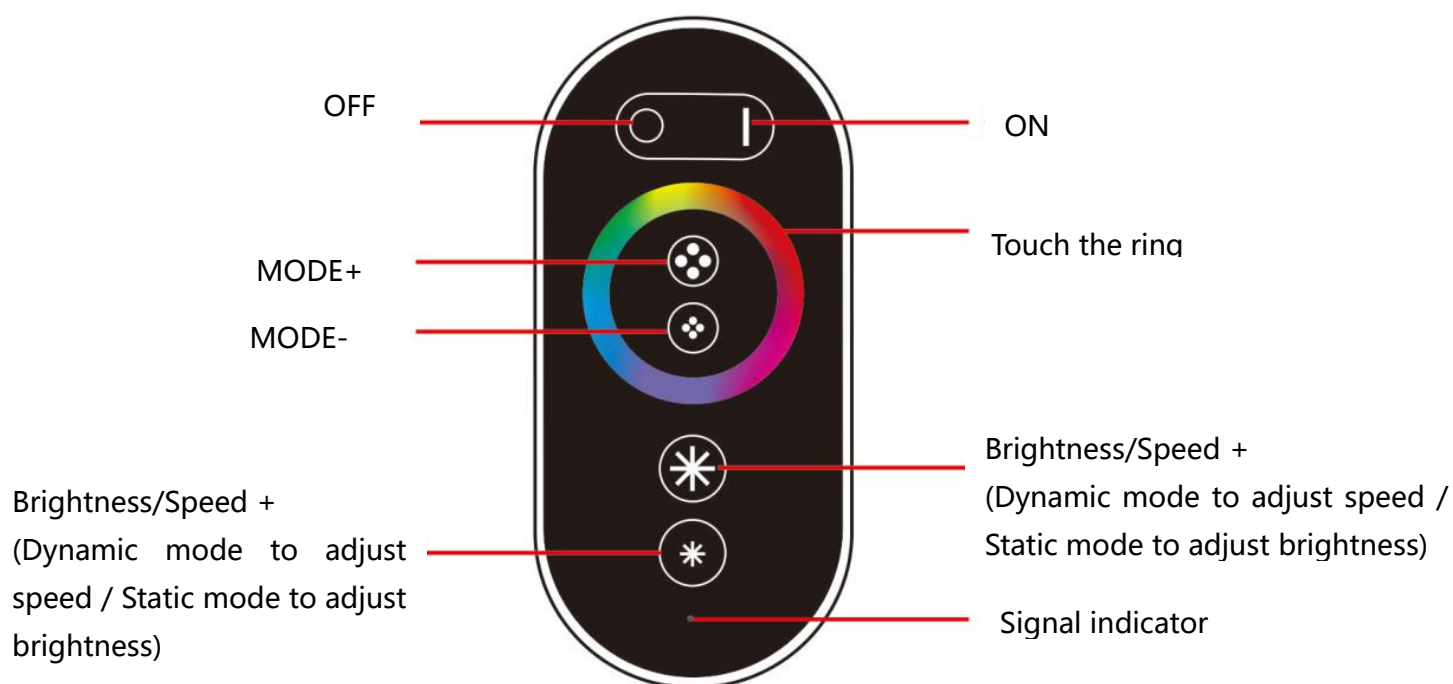8. It has memory functions such as color, mode, speed, brightness, etc.

9. The appearance is novel, beautiful and generous, especially suitable for indoor home and commercial occasions.

● Technical parameters

controller	
Operating voltage	12V~24VDC
Operating current	6Ax3CH
Output channel	3CH
Output power	216W/432W(12V/24V)
Control mode	RF 433 radio frequency
Output mode	Common yang connection
Output control mode	PWM
Output grayscale level	256
remote control	
Operating voltage	4.5VDC
Remote control mode	RF
Transmit frequency	433Mhz(The default is 433MHz, other frequencies need to be scheduled when ordering)
Remote control distance	>20M
Battery type	3 x No. 7 (AAA) batteries
Standby power consumption	0.08mW
Operating power consumption	6mW
Transmit power consumption	40mW

Number of keys	6 buttons, 1 color pulley
Machine	
Operating temperature	-20℃~60℃
Weight (gross)	200g
Package size	L135*W83*H55mm

● Remote control and connection instructions

OFF

ON

MODE+

MODE-

Touch the ring

Brightness/Speed +
(Dynamic mode to adjust speed /
Static mode to adjust brightness)

Brightness/Speed +
(Dynamic mode to adjust
speed / Static mode to adjust
brightness)

Signal indicator

● Installation of the remote control battery

The remote control uses 3 AAA batteries, each with a voltage of 1.5V. When replacing the battery,

please open the back cover of the remote control and fill the 3 batteries according to the directions

on the battery compartment.

Note: When the indicator light on the remote control flashes regularly, it is time for the user to

replace the battery.

● Low power mode and wake-up of the remote control

When the user does not use the remote control for 15 seconds, the remote control will

automatically enter a sleep mode with lower power consumption to save standby power consumption and prolong battery life. When the user needs to re-use the remote control, just touch the mode switch button on the panel to wake up the remote control, and then use it normally.
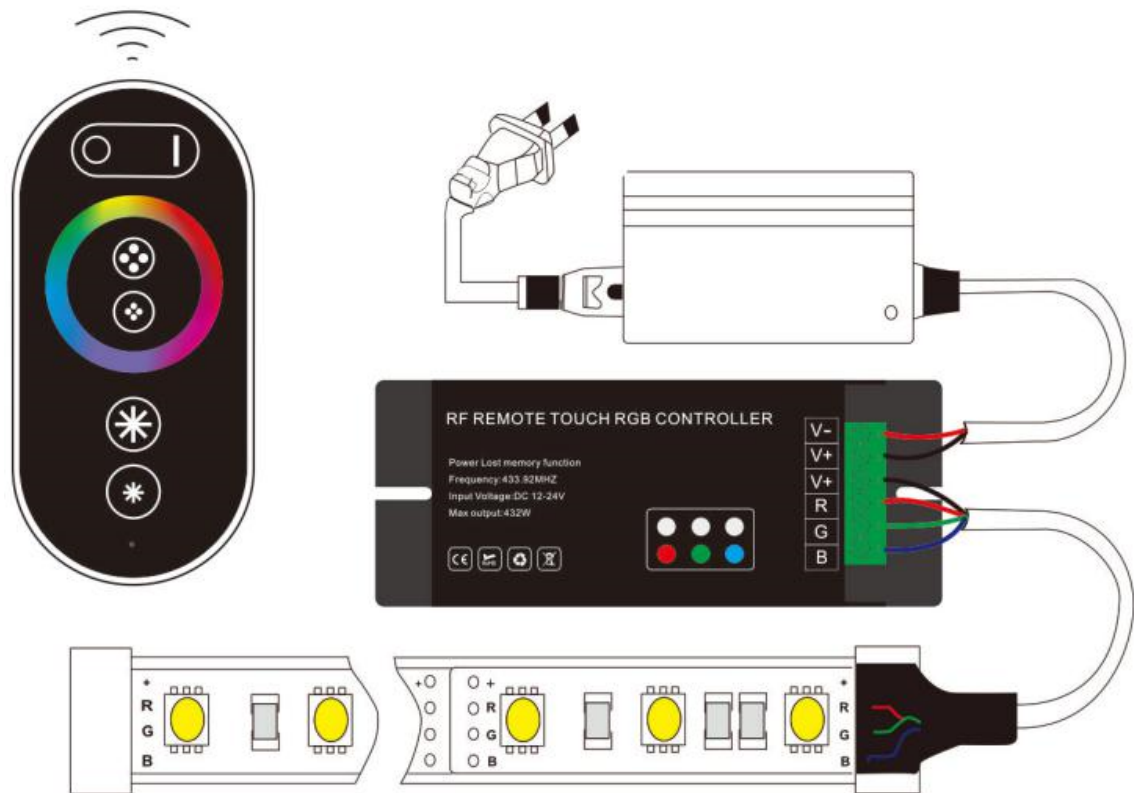
● Schema table

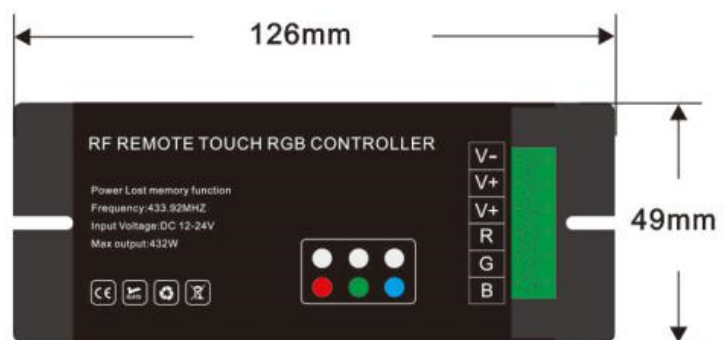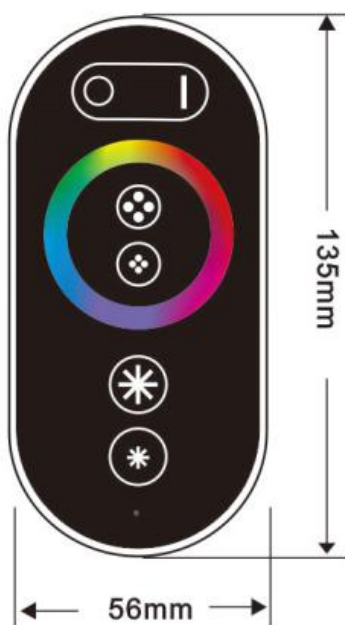(Modes can be added and deleted, which need to be confirmed when placing an order)

S/N	MODE	MEMO	S/N	MODE	MEMO
1	Red breath	The speed is adjustable	9	white light	The speed is adjustable
2	Green breathing		10	Red-green-blue gradient	
3	Blue breathing		11	Seven-color gradient	
4	Red and blue gradients		12	Red-green-blue breathing	
5	Red-green gradient		13	Red-green-blue breathing	
6	Green-blue gradient		14	Seven colors of breathing	
7	Red, white, and blue gradients		15	White light gradient	
8	Red-green-blue-white jumps				

● Wiring and typical application diagrams

The following figure takes connecting RGB strip lights as an example:
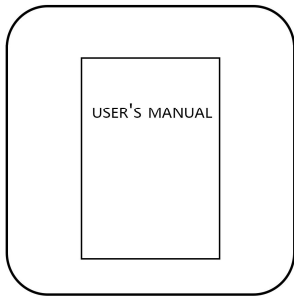
● Product Dimension Drawing

● Product packaging dimensions and accessories

remote control

controller

Instructions

Controller size	Remote control size	Color box size	1pcs	Carton size	50pcs
L126*49*27mm	L135*56*22.5mm	L135*W83*H55mm	220g	L420×W290×H300mm	12kg

● Installation precautions

1. This product should be debugged and installed by professionally qualified personnel.

2. This product cannot be waterproof, it is necessary to avoid sun and rain, if it is installed outdoors, please use a waterproof box.

3. Good heat dissipation conditions will prolong the service life of the LED controller, please install the product in a well-ventilated environment.

4. Please do not install and use such products in lightning and thunder, strong magnetic field or high voltage occasions.

5. Please check whether the output voltage of the LED power supply used meets the requirements of the product voltage range.

6. The diameter of the wire used must be enough to load the LED lamp connected, and ensure that the wiring is firm, so as to avoid the wire overheating or poor contact triggering accidents.

7. Before power-on and commissioning, make sure that all wiring is correct to avoid damage to the lamps due to wiring errors.

● After-sales service

1. Our LED controller products provide lifelong technical support and warranty services:

    Free warranty: This product has quality problems within one year from the date of purchase, and our company will give free repair or replacement service.

    Paid warranty: Products that exceed the free warranty period will be charged a certain cost of maintenance materials.

2. The following situations are not covered by the free warranty or replacement service:

    Man-made damage such as overvoltage, overload, improper operation, etc.

    Any wiring errors, flooding (non-waterproof products) and unauthorized repairs.

    Any serious damage or serious deformation of the shape due to transportation, knocking, etc.

    The shape of the product is severely damaged or deformed.

    Damage caused by natural disasters and force majeure causes, such as earthquakes, floods, fires, etc.

3. The company's maximum responsibility for the factory products is to replace the same model and quantity of products.

4. In order to speed up the timeliness of repair or replacement, please indicate the fault phenomenon, the use environment, and the operation done when the fault occurs, so as to ensure that the maintenance situation is dealt with quickly.